

Use of Windmill Generators in Meteorological Stations

SOV/50-59-2-15/25

present another unit BES-5 is being developed and has already been tested; it has a selenium rectifier which transforms a.c. into d.c. for charging the accumulators. The unit also has a stronger generator of 1.5 kw and operates with two voltages - 120 and 25 v.

Card 2/2

IVANOV, M.P.

Planning and design problem solutions in connection with the
construction of the Baltic State Regional Electric Power Plant.
Energ.stroi. no.24:19-24 '61. (MIRA 15:4)

1. Nachal'nik stroitel'nogo sektora Lenbyuro Leningradskogo
otdeleniya instituta "Teploelektroproyekt."
(Narva region--Electric power plants--Design and construction)

IVANOV, M. S.

Horses

Results of comprehensive testing of horses of Vladimir breed, Komsomol'sk No. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, July, 1953, Unclassified.

2

USSR/Farm Animals - Horses.

Q-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30915

Author : Ivanov M.S.

Inst : -

Title : The Russian Heavy-Draft Horse and Prospect of Its Utilization in Buryat-Mongolia for Troroughbreeding. (Russkiy tyazhelovoz i perspektivy plemennogo ispol'zovaniya yego v Buryat-Mongolii).

Orig Pub : Tr. Buryat-Mong. zoovet. in-ta, 1956, vyp. 10, 27-33.

Abstract : In 1952-1953, 16 stallions of the Russian Heavy-Draft breed were brought into Buryat-Mongolia. The observations carried out in regard to the growth and development of foals showed that the crossbreds of the Russian Heavy-Draft, by their bony framework and large size, are advantageously distinguished from the local Buryat and Trotter breeds. It is recommended to utilize the Heavy-Draft stallions of the medium type for

Card 1/2

USSR/Farm Animals - Horses.

Q-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30916

Author : Ivanov M.S.

Inst : -

Title : The Complex Tests of the Russian Heavy-Drafts in the
Transbaikal Oblast'.
(Kompleksnyye ispytaniya russkikh tyazhelovozov v
Zabaykal'ye).

Orig Pub : Konevodstvo, 1957, No 2, 23-27.

Abstract : The stallions of the Russian Heavy-Draft breed brought
into the Transbaikal Oblast' were classified into three
types: a) horses of hardy constitution, uniting massi-
veness with good mobility and a high relative and abso-
lute carrying capacity; b) massive atallions with body
weight of 605-695 kg., endowed with elements of rough-
ness of constitution but with a high load-carrying capa-
city and moderate mobility;

Card 1/2

IVANOV, M. S.

Ivanov, M. S. "Agriculture and agrarian relations in present day Iran,"
Vestnik Leningr. un-ta, 1948, No. 9, p. 52-77

SO: U-3264, 10 April 53 (Letopis (Zhurnal 'nykh Statey, No. 4, 1949).

1. IVANOV, M. S.
2. USSR (600)
4. Iran - Labor and laboring classes
7. Situation of the workers and the workers' movement in Iran during World War II and after it (1941-1947). Vest. Len. un., 7 No.3, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

IVANOV, M.S.

The BS22 and BS23-type superfinishing machines. Biul.tekh.-ekon.inform.
no.2:38-40 '59. (MIRA 12:3)
(Grinding machines)

IVANOV, M.S.

The DF131, DF140, and DF141 drum-type milling machines. Biul.
tokh.-ekon. inform. no.10:21-22 '59. (MIRA 13:3)
(Milling machines)

IVANOV, MIKHAIL SERGEYEVICH

IVANOV, Mikhail Sergeyevich

IVANOV, Mikhail Sergeyevich (Leningrad Order of Lenin State U. imeni Zhdanov) - Academic degree of Doctor of Historical Sciences, based on his defense, 21 June 1954, in the Council of the Inst of Oriental Studies Acad Sci USSR, of his dissertation entitled: "The Iranian revolution of 1905-1911," and academic title of Professor: "History of the countries of the Near and Middle East." For the Academic Degree of Doctor of Science and the Academic Title of Professor.

SO: Byulleten' Ministerstva Vyshego Obrazovaniya SSSR, List No. 2, 21 January 1956, Decisions of the Higher Certification Commission concerning academic degrees and titles.

IVANOV, M.S. (Khar'kov); KOGAN, B.I. (Khar'kov)

Stress distribution in elastic reinforced bodies. Prikl.mekh.
8 no.5:522-529 '62. (MIRA 15:9)
(Reinforced concrete construction)

IVANOV, M. S.

"Sotsial'nyy sostav naseleniya i obshchestvenno-ekonomicheskoye razvitiye
Irana."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

IVANOV, M.T. (Sukhumi)

Pathomorphological study of untreated influenzal pneumonia in
Macaca monkeys. Arkh.pat. no.3:33-39 '62. (MIRA 15:3)

1. Iz laboratorii patologicheskoy anatomii Instituta eksperimental'-
noy patologii i terapii (dir. - doktor med.nauk B.A. Lapin) AMN SSSR.
(INFLUENZA) (PNEUMONIA)

IVANOV, M.T. (Sukhumi)

Morphology of focal pneumonia in monkeys. Arkh. pat. no.12:
39-44 '62 (MIRA 18:1)

1. Iz laboratorii patologicheskoy anatomii Instituta eksperimental'noy patologii i terapii AMN SSSR (direktor B.A. Lapin).

IVANOV, M.V.

IVANOV, M.V.

Determination of the time of generation of water bacteria in fisheries
of the Volga delta. Trudy Inst. mikrobiol. no.3:213-220 '54. (MLRA 8:3)

(WATER, bacteriology,

determ. of time of generation of bact. in rivers)

(BACTERIA,

in water, determ. of generation time in rivers)

IVANOV, M. V., KUZNETSOV, S. I., SOROKIN, Y. I., and LYADINOV, A. A.

"Application of Radioactive Isotopes to the Study of Processes of Photosynthesis and Chemosynthesis and Chemosynthesis in Lakes," a paper presented at the Atoms for Peace Conference, Geneva, Switzerland, 1955

KUZNETSOV, S.I.; KARZINKIN, G.S.; YEGOROVA, A.A.; EASTAL'SKAYA, M.A.;
KARASIKOVA, A.A.; ~~IVANOV, M.V.~~; ZAVARZIN, G.A.; NERYUGINA, Z.P.

Rigid vegetation as green fertilizer for increasing the productivity of fish farms. Vop.ikht. no.5:119-137 '55. (MLRA 9:5)

1. Institut mikrobiologii Akademii nauk SSSR i Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii, VNIRO.

(Fish culture)

IVANOV, M. V.

Method of determining the production of bacteria in a body of water.
Mikrobiologiya. 24 no.1:79-89 Ja-F '55. (MLRA 8:4)

1. Institut mikrobiologii AN SSSR i Moskovskiy gosudarstvennyy
universitet im. M. V. Lomonosova.

(WATER SUPPLY, bacteriology,
determ. of bact. multiplication)

(BACTERIA,
in water, determ. of multiplication)

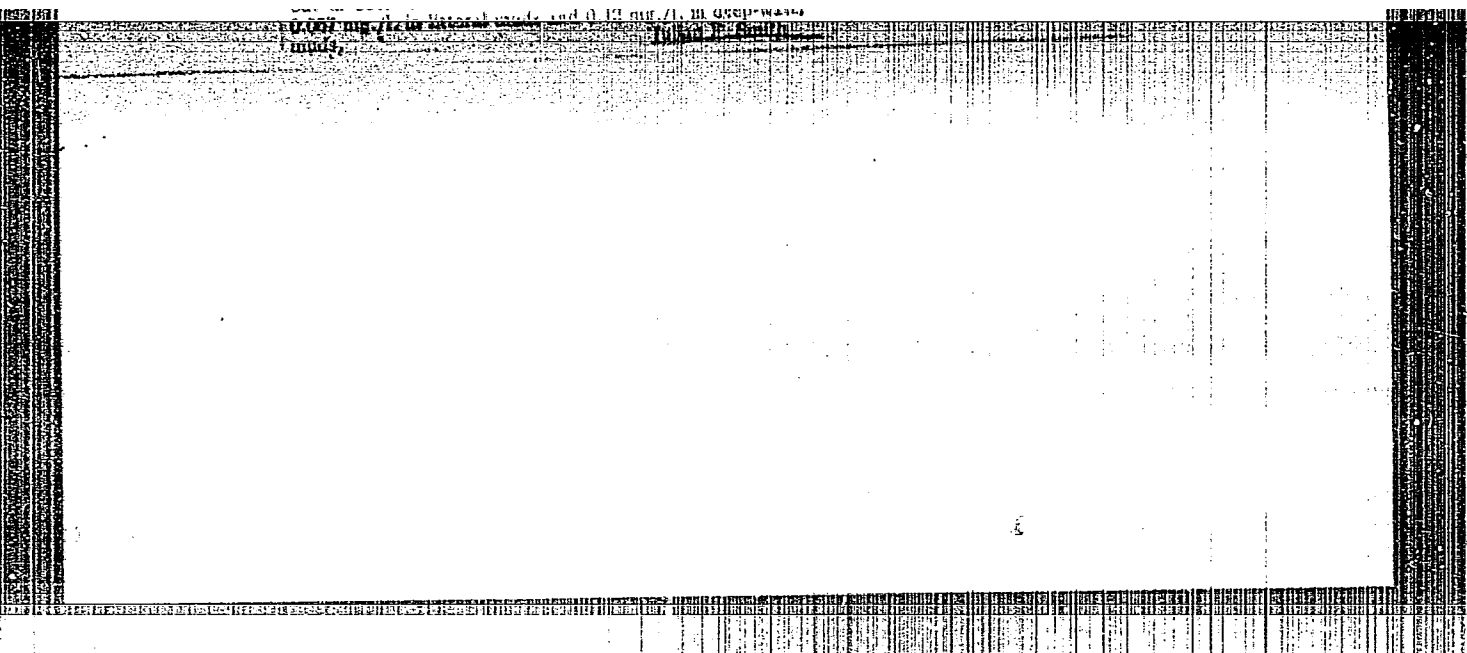
I. A. N. O. V.

✓ Using isotopes in studies of sulfate-reduction activity in
Lake Belovod. M. V. Ivanov (Inst. Microbiol. Acad.

Med. Sci., Moscow). Mikrobiologiya 15, 805-6 (1958).
Fermentation tests with $\text{Na}_2\text{S}^{35}\text{O}_4$ showed that sulfate
reduction in Lake Belovod waters was absent or very slow,
but in bottom muds the rate of daily H_2S formation was
0.067 mg/l. in littoral muds and 0.12 mg/l. in deep-water
muds. Eugene R. Smith

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000619110009-4



APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000619110009-4"

IVANOV, M. V., Cand Biol Sci -- (diss) "The Role of Micro-organisms in the Formation and Disintegration of Deposits of Native Sulfur." Mos, 1957. 18 pp (Inst of Microbiology, Acad Sci USSR), 120 copies (KL, 47-57, 86)

15

IVANOV, M.V.

USSR/Microbiology - General Microbiology. Water and Air
Microorganisms.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99344

Author : Ivanov, M.V.

Inst :

Title : The Role of Microorganisms in the Formation of Sulfur
Deposits in Hydrogen Sulfide Sources of Sergiyevskiye
Mineral 'nyye Vody [Sergiyevsk Mineral Waters]

Orig Pub : Mikrobiologiya, 1957, 26, No 3, 338-345

Abstract : For the determination of the intensity of biological
and chemical oxidation processes of hydrogen sulfide
waters, Na_2S^{35} was used. Water was removed from a basin
into flasks with ground stoppers, a fragment of stone
overgrowths was added, and a definite quantity of Na_2S^{35}
was introduced, which was obtained from the sulfate
 $\text{Na}_2\text{S}^{35}\text{O}_4$ with the help of sulfate reducing bacteria.
The flasks were placed in the basin under natural

Card 1/3

- 42 -

USSR/Microbiology - General Microbiology. Water and Air
Microorganisms.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99344

conditions of temperature and illumination. For each
water sample, 3 different test variants were performed:
a clear flask, a dark flask, and a flask with formalin,
which provided the possibility of analysing the oxida-
tion of H_2S by photosynthesis, chemosynthesis, and che-
mically. After a 25-26 hour exposure in the tank, a cal-
culation of all forms of sulfur derived from the sulfide
(method described) was carried out. It was demonstrated
that the biological oxidation process of sulfur proceeds
approximately 3 times more intensively than the chemical
one. Under conditions of the Sergiyevsk Mineral Waters
the deposition of sulfur is basically due to the action
of chemoautotrophic bacteria. The main role in this is
ascribed to thionic acid bacteria, type *Thiobacillus thio-*
parus, inasmuch as these bacteria were found everywhere,
both in microscopic analysis of overgrowths, as well as

Card 2/3

USSR/Microbiology - General Microbiology. Water and Air
Microorganisms.

F

Abs Jour :

IVANOV, M.V.; LYALIKOVA, N.N.; KUZNETSOV, S.I.

Role of Thiobacillus in the weathering of rocks and sulfide ores
[with summary in English]. Izv.AN SSSR Ser.biol. 23 no.2:183-191
Mr-Apr '58. (MIRA 11:4)

1. Institut mikrobiologii AN SSSR.
(THIOBACILLUS) (WEATHERING)

IVANOV, M.V.; TEREBKOVA, L.S.

Studying microbiological processes associated with hydrogen sulfide formation in Lake Solenoye. Mikrobiologiya 28 no.2: 251-256 Mar-Apr '59. (MIRA 12:5)

1. Institut mikrobiologii AN SSSR.
(SOLENOYE, LAKE--BACTERIA) (HYDROGEN SULFIDE)

IVANOV, M.V.; TEREBOVA, L.S.

Microbiological processes resulting in the formation of hydrogen sulfide in Lake Solenoye. Report No.2. Mikrobiologiya 28 no.3: 413-418 My-Je '59. (MIRA 13:3)

1. Institut mikrobiologii AN SSSR.
(SOLENOYE, LAKE--BACTERIA, SULFUR) (HYDROGEN SULFIDE)

IVANOV, M.V.

Role of micro-organisms in the genesis and metamorphosis of sulfur deposits. Zhur.ob.biol. 21 no.1:3-11 Ja-F '60. (MIRA 13:5)

1. Institute of Microbiology, U.S.S.R. Academy of Sciences.
(BACTERIA, SULFUR)

IVANOV, M.V.

Microbiological investigation of sulfur deposits in the Carpathian Mountain region. Report No.1: Investigation of the Nemirov and Lyuben' deposits. Mikrobiologiya 29 no.1:109-113 Jan-F '60.

(MIRA 13:5)

1. Institut mikrobiologii AN SSSR.
(SULFUR)
(SOIL microbiol.)

IVANOV, M.V.

Conference on the study of geological activity of microorganisms.
Sov. geol. 3 no. 11:161-162 N '60. (MIRA 13:12)

1. Institut mikrobiologii AN SSSR.
(Micropaleontology)

IVANOV, M.V.

Conference on the geological activity of micro-organisms. Mikrobiologiya
29 no.3:467-468 My-Je '60. (MIRA 13:7)
(WATER, UNDERGROUND—BACTERIOLOGY) (GEOCHEMISTRY)

RUBAN, Yevgeniya Leongardovna; IMSHENETSKIY, A.A., otv. red.; IVANOV, M.V.,
red. izd-va; ROMANOV, G.N., tekhn. red.

[Physiology and biochemistry of nitrifying micro-organisms] Fizio-
logiya i biokhimiya nitrifitsiruiushchikh mikroorganizmov. Moskva,
Izd-vo Akad.nauk SSSR, 1961. 173 p. (IKIRA 14:6)

1. Chlen-korrespondent AN SSSR (for Imshenetskiy)
(BACTERIA, NITRIFYING)

IVANOV, M.V.

Role of micro-organisms in the formation and decomposition
of sulfur deposits. Trudy Inst.mikrobiol. no.9:32-45 '61.
(MIRA 15:5)

1. Institut mikrobiologii AN SSSR, Moskva.
(Sulfur bacteria)

IVANOV, M.V.; KOSTRUBA, M.F.

Microbiological investigations of the sulphur beds of the Carpathian Mountain region. Part 3: Formation of hydrogen sulfide in the Yazov sulphur bed. Mikrobiologiya 30 no.1:130-134 Ja-F '61.

(MIRA 14:5)

1. Institut mikrobiologii AN SSSR.

(CARPATHIAN MOUNTAIN REGION--BACTERIA, SULFUR)

(HYDROGEN SULFIDE)

IVANOV, M.V.; RYZHOVA, V.N.

Microbiological investigations of the sulfur beds of the Carpathian Mountain region. Part 4: Investigation of the conditions of vital activity of sulfate-reducing bacteria in the subsoil waters of Rozdol. Mikrobiologiya 30 no.2:280-285 Mr-Apr '61. (MIRA 14:6)

1. Institut mikrobiologii AN SSSR,
(CARPATHIAN MOUNTAIN REGION---BACTERIA, SULFUR)

KUZNETSOV, S.I.; IVANOV, M.V.; LYALIKOVA, N.N.; IMSHENETSKIY, A.A.,
otv. red.; SHCHERBAKOV, A.P., red. izd-va; SHEVCHENKO, G.N.,
tekhn. red.

[Introduction to geological microbiology] Vvedenie v geologi-
cheskuyu mikrobiologiyu. Moskva, Izd-vo Akad. nauk SSSR,
1962. 238 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Imshenetskiy).
(Geology) (Microbiology)

IVANOV, M.V.

Microbiological investigations of the sulphur beds of the Carpathian Mountain region. Part 2: Study of the microbiological process of sulfate reduction in the Pozdol sulphur bed. Mikrobiologiya 29 no.2:242-247 Mr-Apr '60: (MIRA 14:7)

1. Institut mikrobiologii AN SSSR.
(CARPATHIAN MOUNTAIN REGION---BACTERIA, SULFUR)

IVANOV, M. V.

Microbiological investigations of the sulfur beds of the Carpa-
thian Mountain region. [Report] No. 5: Distribution of sulfate-
reducing bacteria in the sedimentary rocks which make up the
sulfur beds. Mikrobiologiya 30 no.3:500-502 My-Je '61.
(MIRA 15:7)

1. Institut mikrobiologii AN SSSR.

(CARPATHIAN MOUNTAIN REGION—BACTERIA, SULFUR)

RYZHOVA, V.N.; IVANOV, M.V.

Microbiological investigations of sulfur deposits in the Carpathian Mountain region. Report No. 6: Utilization of dispersed organic matter of sedimentary rocks in sulfate reduction. Mikrobiologiya 30 no.6:1075-1079 N-D '61. (MIRA 14:12)

1. Institut mikrobiologii AN SSSR.
(ROZDOL—MINERAL WATERS, SULFUROUS—MICROBIOLOGY)

KARAVAYKO, G.I.; IVANOV, M.V.; SREBRODOL'SKIY, B.I.

Oxidation of stored sulfur ores. Sov.geol. 5 no.12:133-139
D '62. (MIRA 16:2)

1. Institut mikrobiologii AN SSSR i L'vovskiy gosudarstvennyy
universitet imeni Ivana Franko.
(Lvov Province—Sulfur)
(Oxidation)

KARAVAYKO, G.I.; IVANOV, M.V.; POMERANTS, L.B.

Microbiological studies in the Karakum sulfur deposit.
Izv. AN SSSR Ser. biol. no.2:249-260 Mr-Apr '63.

1. Institut mikrobiologii AN SSSR.

(MIRA 17:5)

IVANOV, Mikhail Vladimirovich; KUZNETSOV, S.I., otv. red.; SOKOLOV, A.S., red.; SHEVCHENKO, G.N., tekhn. red.; RYLINA, Yu.V., tekhn. red.

[Role of microbiological processes in the genesis of native sulfur deposits] Rol' mikrobiologicheskikh protsessov v genezise mestorozhdenii samorodnoi sery. Moskva, Izd-vo "Nauka," 1964. 365 p. (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Kuznetsov).

IVANOV, M. V.

"Employment of the ^{35}S sulfur isotope to determine the intensity of the sulfate reduction in oil deposits."

report scheduled to be presented at the Intl Symp on Microbiology of Crude Oil, Brno, 5-7 Oct 64.

IVANOV, M.V., kand.biolog.nauk

Microbiological studies in regions of active volcanoes; Conference at the Microbiological Institute. Vest. AN SSSR 34 no. 1:114-115 Ja '64. (MIRA 17:5)

IVANOV, M.V.; MOGILEVSKIY, G.A.; SLAVNINA, G.P.

Symposium on petroleum microbiology, Czechoslovakia, Brno,
Oct. 4-9, 1964. Izv. AN SSSR. Ser. biol. no.5:799-803 S-O '65.
(MIRA 18:9)

L 45820-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) JD/HM

ACC NR: AP6017538

SOURCE CODE: UR/0193/66/003/001/0017/0018

AUTHOR: Ivanov, M. V.

ORG: None

TITLE: Portable semiautomatic set of PDG-302 knapsack type for gas shielded arc welding

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 1, 1966, 17-18

TOPIC TAGS: welder, arc welding, welding equipment / PDG-302 welder

ABSTRACT: A description of a portable welder¹⁰ manufactured by the Leningrad "Elektrik" plant is presented. The device is equipped with a semiautomatic 300-amp welding gun. It is used for gas shielding arc welding. Its electrode actuating mechanism is mounted in a portable glass-plastic box of a knapsack type. The control equipment is mounted on a panel of a closed cabinet type. The welder is fed from a 220/380 v a-c circuit. The current can be varied between 60 and 300 amp. A power of 28 kva is required for welding. The weight of the knapsack-box is 4.5 kg. The welding gun is of 0.4 kg. The weight of the panel-cabinet is 27 kg. The design of welding gun and actuating mechanism is generally described and its advantages stressed. The control panel carrying switches, ammeter, fuses, signal lights, etc. is also of a portable type. The portable welder being tested at various plants is accepted for mass production. Orig. art. has: 1 table.

SUB CODE: 13/ SUBM DATE: None

Card 1/1

JS

UDC: 621.791.03-52

L 23011-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6007668

SOURCE CODE: UR/0413/66/000/003/0040/0040

AUTHOR: Zorin, D. Ye.; Bobrov, V. B.; Ivanov, M. V.

ORG: none

TITLE: Automatic machine for shielded welding. Class 21, No. 178427
[announced by the Plant Elektrik (Zavod Elektrik)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 40

TOPIC TAGS: automatic welding, welding equipment

ABSTRACT: An Author Certificate has been issued for an automatic shielded-welding machine using both continuous and intermittent welds (primarily for disk wheel rims), containing a holder, welding heads, a mechanism for their adjustment, a wheel-rotation mechanism, a blocking device, and remote controls. To increase the degree of automation in producing welded wheels, the holder is equipped with a mechanism for feeding the wheels into the welding position; it is designed as a pneumatic drive coupled with a revolving device which, in turn, is equipped with a stationary pneumatic cylinder and a rod with a spring retainer for actuating the rotation of the wheel to be welded (see Fig. 1). Orig. art. has: 1 figure.

[LD]

Card 1/2

UDC: 621.791.753.9.03

L 23011-66

ACC NR: AP6007668

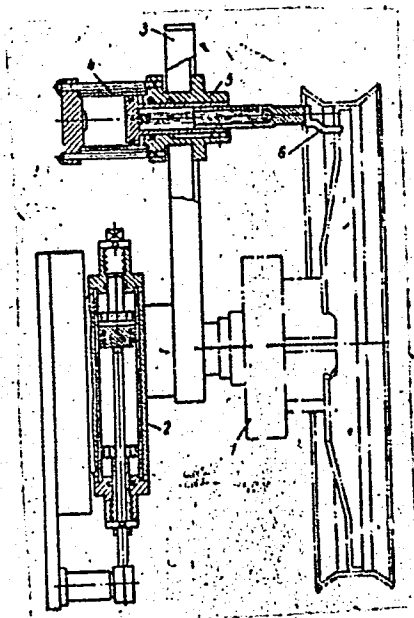


Fig. 1. Automatic machine for shielded welding.

1 - holder; 2 - pneumatic drive;
3 - revolving device; 4 - pneumatic
cylinder; 5 - rod; 6 - retainer

SUB CODE: 13/

SUBM DATE: 11May64/

Card

2/2 *pla*

IVANOV, M.V.

Oil heater for mobile air compressors. This prem. no. 51308 JI-Ag
'56. (MIRA 9:11)

1. Stalinogorskiy khimicheskiy kombinat imeni I.V. Stalina.
(Air compressors)

IVANOV, M.V.

The ADGTS-500 automatic machine for shielded-arc welding.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i.tekh.
inform. no.9:29-31 '62. (MIRA 15:9)
(Electric welding--Equipment and supplies)

44601
S/135/62/0007001/007/016
A006/A101

AUTHOR: Ivanov, M. V., Engineer

TITLE: The АДГЦ-500 (ADGTs-500) automatic machine for arc welding circumferential seams in shielding gases

PERIODICAL: Svarochnoye proizvodstvo, no. 1, 1963, 25

TEXT: The multi-purpose ADGTs-500 automatic machine has been manufactured at the Leningrad "Elektrik" Plant. It is used at the Volgograd tractor plant for the mechanization and automation of welding operations in a continuous line producing tractor frames. The machine is intended for d-c arc welding with consumable steel electrode in CO₂, argon or other gases; butt and angular circumferential welds can be produced on parts, 80 - 250 mm in diameter. The machine can be used to weld parts of different thickness and in difficultly accessible spots. It is equipped with an exchangeable fixing attachment for welding parts of various shapes and dimensions. The technical characteristics are 230 - 380 v feed voltage; - 500 amps rated welding current; 2.5 - 6 mm/min electrode feed rate; 7.5 - 29.5 m/h welding speed for parts 100 mm in diameter; 14.7 - 59 m/h

Card 1/2

The АДГЦ-500 (ADGTs-500) automatic machine for...

S/135/62/000/001/007/016
A006/A101

welding speed for parts 200 mm in diameter; 400 - 1,200 l/h shielding gas consumption; 8 kg capacity of the electrode container. The device for the circular rotation of the welding torch is the basic assembly of the machine; it consists of an electric-driven rotating mechanism, a welding torch with electrode feed drive, a lifting device, a bracket with the electrode container and a micro-switch unit. The operation of the machine is described. There is 1 figure.

ASSOCIATION: Leningradskiy zavod "Elektrik" (The Leningrad "Elektrik" Plant)

Card 2/2

USSR/Accoustics - Ultrasonics, J-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35588

Author: Ivanov, M. V., Kolesnikov, A. Ye.

Institution: None

Title: Ultrasonic Method of Determining Defects in Large-Size Insulators

Original

Periodical: Elektrichestvo, 1956, No 6, 95

Abstract: See also Referat Zhur - Fizika, 1955, 14867

Card 1/1

IVANOV, M. YE.

SHIDAREV, I.M.; FOMIN, I.T., inzhener, retsenzent; IVANOV, M.Ye, inzhener,
retsenzent; MANAKIN, N.V., inzhener, redaktor; ~~TIKHONOV~~, A.Ya,
tekhnicheskiiy redaktor

[Mechanical drawing] Cherchenie. Moskva, Gos. nauchn.-tekhn. izd-vo
mashinostroit. i sudostroit. lit-ry, 1954. 349 p. (MLRA 7:9)
(Mechanical drawing)

IVANOV, M. Ye.

"Certain Organizational Problems Posed by the Network of High-Mountain Hydrometeorological Stations in Central Asia," No 5, pp 114-117.
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

IVANOV, M. Ye.

Ivanov, M. Ye.

"Investigation of heat liberation in the condensation and boiling of the basic components of air." Min Higher Education USSR. Moscow Inst of Chemical Machine Building. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

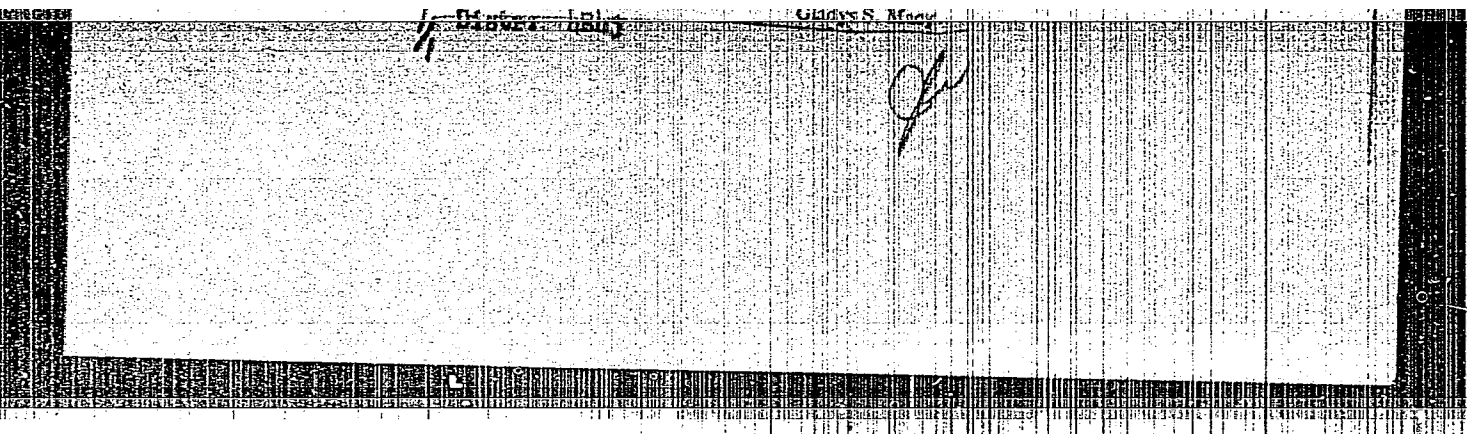
SO: Knizhnaya letopis'
No. 25, 1956. Moscow

IVANOV, M.E.

27
Design of condensers for large-scale oxygen installations.
M. E. Plukhin and M. E. Ivanov. *Trudy Vsesoyuznogo
Nauch.-Issledovatskogo Instituta Khimicheskoy Tekhnologii*. 1956,
No. 1, 37-43. Four types of app. were considered in the
choice of design of condensers for large-scale oxygen installa-
tions: (1) horizontal condenser with boiling inside of tubes
and condensation on the outside; (2) horizontal condenser
with boiling outside and condensation inside.

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CIA-RDP86-00513R000619110009-4"

AUTHORS: Ivanov, M.Ye., Candidate of Technical Sciences, 67-58.3.3/18
Yelukhin, N.K., Candidate of Technical Sciences

TITLE: Heat Transfer During the Boiling of Oxygen and Nitrogen
(Teplootdacha pri kipenii kisloroda i azota)

PERIODICAL: Kislorod, 1968. Nr 3. pp. 19-28 (USSR)

ABSTRACT: By way of introduction the scientific works by G.G.Haselden (Ref 1), Weil and Bromley (Ref 3) are referred to and criticized. It is said that the results obtained by these scientists do not agree with one another, and that too few data are available for the domains of low temperature stresses so that no conclusions can be drawn as to rules governing the process and the domains of high temperature stresses (critical stresses) as well as temperature pressure are said not to have been dealt with at all. To do so is the task to be performed here. The following experimental samples were used: a nickel silver tube of 4/3.5 mm and 8/7.5 mm diameter and 300 mm length which partly had a smooth surface and partly was roughened or was provided with a protecting emery paper coating; further, a copper tube of 4/3.6 mm and 10.9.6 mm diameter with a smooth, etched, or protected surface. Besides, bundles of nickel

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Heat Transfer During the Boiling of Oxygen and Nitrogen

67 58-3-3/18

silver tubes of 8/7.7 mm diameter and 300 mm length were investigated. These bundles were placed into glass vessels, the bottoms of which had slots through which the liquid was introduced from below until it covered the upper ends of the tubes. Individual tubes or bundles were connected to the copper rods through which the current was transmitted. The experimental order is given in form of a schematic drawing (fig. 1). In the chapter: Boiling in individual Vertical Tubes the following subjects are dealt with: The dependence of the coefficient of heat transfer on the specific thermal effect during boiling and oxygen and nitrogen convection on the surface of the vertical tubes; the effects which cause transition of convection to boiling, and, lastly, the differences in heat transfer in the case of a smooth, roughened, and protected surface of the tube. Results concerning boiling were dealt with according to the criteria system developed by A.D. Rychkovskiy and A.N. Planovskiy (Ref 4). In the chapter: Boiling in the Vertical Bundles of Tubes and Inside the Long Vertical Tube the same moments of comparison as above were dealt with. The same is the case with respect to the oxygen convection in the metastable state; the dependence of the specific weight (of the mixture) on the specific thermal effect exercised during the boiling of the oxygen upon the vertical bundle of tubes and

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Heat Transfer During the Boiling of Oxygen and Nitrogen

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determination of its specific weight; finally, the dependence of the coefficient of heat transfer on the specific effect of heat and the apparent level of the boiling oxygen inside the vertical tube is dealt with. In conclusion it is said that, in the course of these experiments and in the process of transition of the convection to boiling, a hysteresis was found to exist, which consisted in the fact that the occurrence of one or the other form of the process in the case of a given heat effect depends on the direction of approach to the latter. In the case of approach being made from the side of stronger action of heat, weak boiling was observed, and if approach was made from the side of weaker action, convection was found. Accordingly, different coefficients of heat transfer were found which differed by up to 50%. Herefrom it may be concluded that for the purpose of obtaining the most intense heat transfer possible in the apparatus, it is necessary to proceed from the direction of the greater intensity of the process. There are 10 figures, and 9 references, 5 of which are Soviet.

Card 3/3

1. Metals--Thermal stresses 2. Metals--Heat transfer
3. Nitrogen (Liquid)--Metallurgical effects 4. Oxygen (Liquid)--Metallurgical effects

25(2)

AUTHORS:

Yelukhin, N. K., Candidate of Technical Sciences,
Ivanov, M. Ye., Candidate of Technical Sciences

SOV/67-59-2-4/18

TITLE:

Calculation of Condenser-vaporizers of Air-fractionating Apparatus (Raschet kondensatorov-ispariteley vozdukhorazdelitel'nykh ustanovok)

PERIODICAL:

Kislород, 1959, Nr 2, pp 21-27 (USSR)

ABSTRACT:

It is the aim of this work to select well founded parameters for the design of condenser-vaporizers based upon the results achieved in experimental investigation of the process of heat emission during the condensation of nitrogen and the boiling of oxygen and to develop with their help a method of calculation. For the calculations the necessary temperature-gradient has to be determined in a given condenser-vaporizer, or the specific thermal stress per lm^2 of exchange surface, i.e. the condenser-vaporizer surface necessary for the transfer of a given heat quantity. To make the calculation easier it is assumed that the condensing nitrogen as well as the boiling oxygen are highly concentrated so that it is possible to neglect the influence exercised by their changing composition on their physical

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Calculation of Condenser-vaporizers of Air-fractionating Apparatus

SOV/67-59-2-4/18

properties and, consequently, also on the calculation. First the temperature gradient between boiling liquid and condensing vapor is calculated which is necessary in a given condenser-vaporizer for the transfer of a given quantity of heat. For making the calculation easier the latest data of publications are used for computing graphically the values of the physical characteristics of the condensate at various temperatures (Figs. 1-7). For the computation it is necessary to know: the quantity of heat to be exchanged Q [cal/hour]; the pressure on the boiling part of the heat exchanger [ata]; the composition of the boiling liquid in %, the dimensions of the tube, height H , outer and inner diameter m , and the pitch of the tube. For computing the temperature-gradient the specific temperature stress q in the boiling and in the condensing part of the tube has first to be determined and can be computed by the formulas: $q_{cond} = Q/F_{cond} = q_{boil} \cdot d_{boil}/d_{cond}$

and: $q_{boil} = Q/F_{boil} = Q/\pi d_{boil} H$.

The exact process of the computation is then given. Furthermore, the necessary heat exchange surface is determined. For these

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Calculation of Condenser-vaporizers of Air-fractionating Apparatus SOT/67-59-2-4/18

computations it is necessary to know: 1) The total temperature-gradient of condensation-boiling in the upper part of the tube corresponding to the pressures and concentrations of nitrogen, oxygen, and argon in the lower and the upper part of the columns; 2) the dimensions of the tube. From the computations it results that the necessary surface of the condenser-vaporizer in the boiling part is determined by means of the specific thermal stress.

$F_{\text{boil}} = Q/q_{\text{boil}}(\text{m}^2)$. A numerical example for the computation of F_{boil} is given. There are 8 figures and 6 Soviet references.

Card 3/3

IVANOV, M.Ye., kand. tekhn. nauk; YELUKHIN, N.K., kand. tekhn. nauk

Heat exchange during the condensation of oxygen, nitrogen, and argon.
Kislород 12 no.1:5-12 '59. (MIRA 12:6)
(Gas--Liquefaction) (Heat--Transmission)

S/124/62/000/004/019/030
D251/D301

11-3100

26.11.60

AUTHORS: Yelukhin, N. K. and Ivanov, M. Ye.

TITLE: Heat-exchange with condensation and ebullition in conditions of profound cooling

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1962, 92, abstract 4B606 (Tr. Vses. n.-i. in-ta kislородn. mashinostr., 1959, no. 2, 83-110)

TEXT: This is an experimental investigation of heat-exchange with condensation and ebullition of the basic components of the air. Using copper tubes of diameter 8/18 mm and height 2.4 m the condensation of oxygen was investigated on the outside of the tube and its ebullition within and using tubes of diameter 6/24 mm and height 200 mm - the condensation of oxygen, nitrogen and argon on the inner surface. In addition, an investigation was made of the ebullition of oxygen and nitrogen on the outside of vertical tubes and in the intertube space of a double pipe. Measurements are carried out in the ranges of heat-flow: $q = 300 - 23,000 \text{ kcal/m}^2 \text{ hour}$

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Heat-exchange with ...

S/124/62/000/004/019/030
D251/D301

(condensation of O_2 , N_2 and argon), $q = 140 - 220,000 \text{ kcal/m}^2\text{hour}$
(ebullition of O_2 and N_2). In the results of the theoretical consideration and the elaboration of the data obtained the relationship was found for the heat-exchange with condensation:

$$N = 0.013Ga^{0.413}$$

$$\alpha = 0.013 \frac{\lambda}{H} \left(\frac{gH^3}{\nu^2} \right)^{0.413}$$

The working out of the experimental data for ebullition on the outer surfaces of tubes was presented in the criteria of Rychkov and Planovskiy (Khim. prom-st', 1955, no. 5, 51-34 - RZhMekh, 1956; no. 11, 7571). The results are described by the relation

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Heat-exchange with ...

S/124/62/000/004/019/030
D251/D301

$$E_S = 0.125 \left(\frac{p}{p_{cr}} \right)^{0.33} \left(\frac{q}{q_{cr}} \right)^{-0.3}$$

with scatter of the experimental values $\pm 10\%$. Characteristic photographs are presented for the ebullition process on vertical wires with different thermal loads. The article mentions the singularities of ebullition on double pipes with different spaces and the effect of the purity and roughness of the surface. The latter is calculated for tubes of pure and half-alloy copper and for cupronickel tubes of length 300 mm and diameter 4 - 10 mm. The experimentally obtained values of the critical load for the ebullition of oxygen and nitrogen were presented: $O_2 - q_{cr} = 95,000 \text{ kcal/m}^2 \text{ hour}$, $\Delta t_{cr} = 8.8^\circ$; $N_2 - q_{cr} = 95,000 \text{ kcal/m}^2 \text{ hour}$, $\Delta t_{cr} = 7.0^\circ$.

[Abstracter's note: Complete translation.]

Card 3/3

RUDAKOV, A.A.; VERNER, E.O.; IVANOV, M.Ye.; FURMANOV, Z.Z.

Automatic regulation of temperature in thermostating canned foods.
Kons. i ov.prom. 15 no.11:35-38 N '60. (MIRA 13:10)

1. Vinnitskiy sovnarkhoz.
(Canning industry—Equipment and supplies) (Thermostat)

IVANOV, M. YE.

"On Calculation of Variation of Parameters Finite Heat
Transfer Process at Condensation From a Vapour-Gas
Mixture and the Evaporation into it."

Report submitted for the Conference on Heat and Mass Transfer,
Minsk, BSSR, June 1961.

IVANOV, M.Ye.; KVOKSHA, V.V.; VOYCHINSKIY, M.I., red.

[Power supply sources of electric and radio navigation
devices] Istochniki pitaniia elektroradionavigatsion-
nykh priborov. Moskva, Transport, 1965. 218 p.
(MIRA 18:5)

IVANOV, M.Ye.; STEPANCHENKO, N.A.

Progress and strengthening of the "Rassvet" leather firm. Kozh.-
obuv. prom. 6 no.5x14-18 My '64. (MIRA 17:12)

IVANOV, Minko; MUDROV, Khristo; IOIOV, Iolo

Study of tissue biopreparations. Selskostop nauka 1 no.6:
665-671 '62.

ZAYONCHKOVSKIY, Ye.A.; IVANOV, M.Yu.

New system of electronic switching with program control. Elektrosviaz'
19 no.5:69-76 My '65. (MIRA 18:6)

IVANOV, N.

The Leninist principle of peaceful coexistence and foreign
trade. Vnesh. torg. 42 no.6:9-14 '62. (MIRA 17:3)

IVANOV, N.; OGNIANOV, I. [Ognianov, I.]

On the composition of neutral extractive substances in Bulgarian tobacco. Doklady BAN 16 no.3:293-296 '63.

1. Submitted by Corresponding Member B. Kourtev [Kurtev, B].

KOSTINA, Vera Veniaminovna; YERSHOVA, I., red.; IVANOV, N.,
tekhn. red.

[Nature's calendar; meteorologic, agrometeorologic
and hydrologic characteristics of Kaluga Province]
Kalendar' prirody; meteorologicheskaja, agrometeoro-
logicheskaja i gidrologicheskaja kharakteristika Ka-
luzhskoi oblasti. Kaluga, Kaluzhskoe knizhnoe izd-vo,
1963. 102 p. (MIRA 17:2)

IVANOV, N.; SHTEDING, A.

Determining the level of mechanization and automation in coal
mines. Biul. nauch. inform.: trud i zar. plata 5 no.7:12-18
'62. (MIRA 15:7)

(Donets Basin--Coal mines and mining)
(Automation)

IVANOV, N., inzh.

Ways of developing the Ob'-Irtysh basin. Rech. transp. 21 no.10:
10-11 0 '62. (MIRA 15:10)

(Ob' Valley--Inland water transportation)
(Irtysh Valley--Inland water transportation)

KUZNETSOV, V., starshiy inzh.; BELOUSOV, I.; CHERNOGLAZOV, M.; IVANOV, N.

We are in need of a testing area. Rech. transp. 20 no.8:47 Ag
'61. (MIRA 14:10)

1. Gosudarstvennyy institut proyektirovaniya i izyskaniy na rechnom
transporte (for Kuznetsov). 2. Nachal'nik otdela Glavnogo uprav-
leniya kapital'nogo stroitel'stva Ministerstva rechnogo flota (for
Belousov). 3. Glavnyy inzh. Stroitel'no-montazhnogo upravleniya
No.9 tresta "Yakutstroy" (for Chernoglazov).
(Lena River--Hydraulic engineering)

IVANOV, N., inzh.

Moving of buildings. Nauka i tekhn. mladezh no.2:1-2 P '57.

MECHKOVSKIY, G.; IVANOV, N.

"Potentials for the growth of labor productivity in the U.S.S.R. industry," ed. by M. D. Gorshunov, A. I. Zalkind. Reviewed by G. Mechkovskii, N. Ivanov. Sots. trud 6 no.11:152-157 N '61.
(MIRA 14:11)

(Labor productivity)
(Gorshunov, M. D.)
(Zalkind, A. I.)

IVANOV, N.

Wiring film strips and slides for sound. Zdrav. Belor. 6 no.8:
55-56 Ag '60. (MIRA 13:9)

1. Glavnyy vrach Bobruyskogo Doma sanitarnogo prosveshcheniya.
(SOUND—RECORDING AND REPRODUCING)
(FILMSTRIPS) (HEALTH EDUCATION)

IVANOV, N.

Such planning helps us. Okhr. truda i sots. strakh. 4 no.1:21-22
Ja '61. (MIRA 14:3)

1. Obshchestvennyy inspektor okhrany truda stroitel'nogo upravleniya
No. 1 tresta "Smolenskstroy", chlen brigady kommunisticheskogo truda.
(Smolensk--Construction industry--Hygienic aspects)

IVANOV, N.; CHENTSOV, I.

Analysis of the carrying out of the costs plan by enterprises. Fin.
SSSR 37 no.5:72-75 My '63. (MIRA 16:5)
(Costs, Industrial)

IVANOV, N., kand.sel'skokhozyaystvennykh nauk

Drying corn seeds. Nauka i pered.op.v sel'khoz. § no.11:
41-43 N '59. (MIRA 13:3)

1. Voronezhskaya opytnaya stantsiya Vsesoyuznogo nauchno-
issledovatel'skogo instituta kukuruzy.^{GEN}
(Corn(Maize)---Drying)

IVANOV, N.; KOPNYSHEV, I. (Khar'kov)

Our experience with installment sales for durable goods.
Sov. torg 33 no.10:11-12 U '59. (MIRA 13:1)
(Kharkov--Installment plan)

IVANOV, N.; MARKOVA, V.; CHERNAEV, S.

Quantitative determination of hemoglobin by Sicca's method. *Suvrem. med.*, Sofia no.9/10:114-117 '59.

1. Iz Katedrata po propedeutika na vutreshnite bolesti pri VMI
"I.P. Pavlov" - Plovdiv. Zav.katedrata: prof. An.Mitov.
(HEMOGLOBIN chem.)

IVANOV, N.; RABINOVICH, M.

Control of finance department over the reduction of production costs.
Fin. SSSR 21 no.11:32-37 N'60. (MIRA 13:11)
(Costs, Industrial)

IVANOV, N.; NIKOLAYEVA, M.

New material for making unstained floors. Sel' stroi. 13 no.8:
16-17 Ag '58. (MIRA 11:9)

1.Upravleniye "Glavmosoblstroymaterialy." 2.Nachal'nik laboratorii
novykh stroitel'nykh materialov (for Ivanov).3.Nachal'nik otдела
laboratorii novykh stroitel'nykh materialov (for Nikolayeva).
(Floors) (Wood, Compressed)

AUTHOR: Ivanov, N.

25-10-40/41

TITLE: Brain Tumors (Opukholi mozga)

PERIODICAL: Nauka i Zhizn', 1957, # 10, p 63 (USSR)

ABSTRACT: The article constitutes a reply to a "Letter to the Editor" requesting information on brain tumors. The author thus describes a brain tumor and states that it is removed by neuro-surgery. Furthermore, that apart from the Neuro-Surgical Institute imeni Burdenko of the Academy of Medical Sciences of the USSR in Moscow (Institut neyrokhirurgi imeni Burdenko Akademii meditsinskikh nauk SSSR, Moskva); analogous institutes have been established in Leningrad, Kiyev, Minsk and other cities of the USSR to intensify research on brain tumors.

AVAILABLE: Library of Congress

Card 1/1

IVANOV, N.

IVANOV, N.

~~Effect of periplocin on tissue cholinesterase. Biol.listy 31 no.1:~~
15-20 27 May 50. (GLML 19:4)

1. Of the Pharmacological Institute of Charles University (Head—
Prof. B.Polak, M.D.) Work Group under Docent Raska.

/ivanov, N.

KAMENSHCHIKOV, M., inzhener; IVANOV, N.

Let us develop mixed transportation on the Dniopr. Rech.
transp. 14 no.6:13-14 Je '55. (MIRA 8:9)
(Inland water transportation) (Freight and freightage)

COUNTRY : BULGARIA
 CATEGORY : Farm Animals. Cattle. 9
 ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25826
 AUTHOR : Kumanov, Stefan; Ivanov, Nicho; Nestorov,*
 INST. : -
 TITLE : The Possibility of Increasing Milk Yields and
 the Milk's Fat Content in Cows.
 ORIG. PUB. : Selsko-stop. mis'l, 1957, 2, No 10, 622-629
 ABSTRACT : A review is presented which uses Soviet as
 well as Bulgarian experiences. The signifi-
 cance of such factors is stressed as the quan-
 tity and quality of fodder which increase milk
 yields and the percentage of fat, as well as
 the presence of such elements in feeds as Ca,
 P, K, S, Cl, Na, Mg, Fe, I, Cu, Mn, Co, and
 others, of vitamins A, C, D, and E, the pre-
 sence of various enzymes which are imperative
 for the synthesis of fat and vegetotropic sub-

CARD: 1/2
 *Nikola

COUNTRY : BULGARIA
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : stances (polycarpine, acethylcholine, and
others), and also the importance of classi-
fying animals according to their breed and
practising animal selection and choice. --
K. M. Lyutikov

Card: 2/2

IVANOV, N., master proizvodstvennogo obucheniya

Path of one group. Prof.-tekh. obr. 20 no.7:11 J1 '63.
(MIRA 16:10)

1. Gornopromyshlennaya shkola No.21, Rostovskaya obl.

10000-07

ACC NR: AR0005047

(A)

SOURCE CODE: UR/0350/65/000/011/0026/0027

11

AUTHOR: Ivanov, N. (Head of agriculture and food production department); Petronko, A.
(Junior Research Associate)

ORG: Department of Agriculture and Food Production of the Scientific Research
Institute of Agriculture of the Central Chernozem Zone im. V. V. Dokuchayev (Otdel
zemledeliya i kormoproizvodstva Nauchno-issledovatel'skogo instituta sel'skogo
khozyaystva tsentral'no-chernozemnoy polosity)

TITLE: Legume crops for feed in the central chernozem zone

SOURCE: Zernobobovyye kul'tury, no. 11, 1965, 26-27

TOPIC TAGS: agriculture crop, animal husbandry, soil type

ABSTRACT: With few natural pastures in the central chernozem zone, the kolkhozes and
sovkhozes rely heavily on crops as a feed base for animals. Corn and sugar beet crops
have proven unsatisfactory because they do not contain sufficient amounts of protein,
vitamins and minerals. In recent years various legume crops have been planted to find
more satisfactory crops both qualitatively and quantitatively. On the basis of data
reported by the various kolkhozes and sovkozes of the central chernozem zone, pea crops
produce the highest yield of green mass, however, the highest amount of protein is
found in L'govsk vetch 31-292 with a protein level of 55.4 centners/hectare compared to

Card 1/2

UDC: 635.65:636.085(471.32)

L 10040-57

ACC NR: AF6005047

10.3 centners/hectare for peas. Peavine produces a smaller green mass yield than peas, but its protein content is higher. Since peavine is a more drought resistant crop than peas or vetch and has a tender and highly nutritious mass, it is highly suitable for the dryer southeastern rayons of the central chernozem zone. At present the expansion of legume crops for food bases is held back by lack of harvesting machinery and by lack of organized legume seed production, particularly of vetch. Orig. art. has: 3 figures.

SUB CODE: 02/ SUBM DATE: none

L 08302-67 FSS-2/EWT(1)

ACC NR: AP6030315

(A)

SOURCE CODE: UR/0018/66/000/008/0094/0096

AUTHOR: Ivanov, N. (Captain)

ORG: none

28

8

TITLE: Gunnery practice from a brief halt

SOURCE: Voyenny vestinik, no. 8, 1966, 94-96

TOPIC TAGS: antiaircraft defense, antiaircraft weapon, gunnery training, mobile antiaircraft unit

5

ABSTRACT: The article describes the gunnery practice of an antiaircraft unit firing at a low-flying aircraft, either after the antiaircraft weapon has made a brief stop and been prepared for battle or while it is still mounted on wheels. In both cases, the antiaircraft weapon is prepared in advance to open fire: the range is set at 2500 m, speed at 200 m/sec, the course indicator is set in the direction of the weapon's motion, and the dive angle is at zero.

SUB CODE: 05, 19/ SUBM DATE: none

Card 1/1 nat

USSR/Cultivated Plants - Medicinal. Essential Oil-Bearing.
Toxins.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82563

Author : Ivanov, Nicho

Inst :

Title : Medicinal Vegetation in Bulgaria

Orig Pub : Novaya Bulgariya, 1957, 6, No 13, 5-6

Abstract : The abundance of medicinal plants in Bulgaria characterized by a high content of active elements is noted. Thus, the opium poppy cultivated in Bulgaria occupies the first place in morphine content among the known varieties. Bulgarian camomile is not inferior to the Japanese and Dalmatian in Yrethrin content. Digitalis lanata surpasses the international standard in activity by 4-5 times. Medicinal plants of Bulgaria are listed with directions as to their use, including Hypericum perforatum used in popular medicine against cancer. Valuable essential oil

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USSR/Cultivated Plants -- Medicinal. Essential Oil-Bearing.
Toxins.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82563

plants of Bulgaria are also listed. -- An. A. Zaytseva

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IVANOV, N., преподаvatel'; PLAKUSHCHIY, P.

Let's satisfy more fully the demand for animal products. Sov. torg.
no. 7:14-17 J1 '58. (MIRA 11:7)

1. Khar'kovskiy institut sovetskoy trgovli(for Ivanov). 2. Nachal'nik
Upravleniya myaso-molochnoy promyshlennosti Khar'kovskogo sovnarkhoza
(for Plakushchiy).

(Produce trade)